

Om protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 18.3922 Seconds
(without alignments)

Sequence: 188.066 Million cell updates/sec

Title: US-09-872-852-2

Perfect score: 367

Sequence: 1 MRIHYLLFALLFLFLVLPVPGHGGIINTLQKYYCVRGGRCAVLSCLPKEEQIGKSTRGR 60

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 367 | 100.0 | 67 | 4 | US-09-636-399A-10 |
| 2 | 357 | 97.3 | 65 | 4 | US-09-636-399A-2 |
| 3 | 241 | 65.7 | 49 | 4 | US-09-636-399A-35 |
| 4 | 236 | 64.3 | 48 | 4 | US-09-636-399A-36 |
| 5 | 234 | 63.8 | 48 | 4 | US-09-636-399A-37 |
| 6 | 229 | 62.4 | 47 | 4 | US-09-636-399A-38 |
| 7 | 228 | 62.1 | 47 | 4 | US-09-636-399A-39 |
| 8 | 223 | 60.8 | 46 | 4 | US-09-636-399A-40 |
| 9 | 220 | 59.9 | 46 | 4 | US-09-636-399A-41 |
| 10 | 215 | 58.6 | 45 | 4 | US-09-636-399A-42 |
| 11 | 214 | 58.3 | 45 | 4 | US-09-636-399A-43 |
| 12 | 209 | 56.9 | 44 | 4 | US-09-636-399A-44 |
| 13 | 208 | 56.7 | 44 | 4 | US-09-636-399A-20 |
| 14 | 208 | 56.7 | 44 | 4 | US-09-636-399A-45 |
| 15 | 204 | 55.6 | 43 | 4 | US-09-636-399A-23 |
| 16 | 204 | 55.6 | 43 | 4 | US-09-636-399A-47 |
| 17 | 203 | 55.3 | 43 | 4 | US-09-636-399A-21 |
| 18 | 203 | 55.3 | 43 | 4 | US-09-636-399A-46 |
| 19 | 200 | 54.5 | 42 | 4 | US-09-636-399A-26 |
| 20 | 200 | 54.5 | 42 | 4 | US-09-636-399A-49 |
| 21 | 199 | 54.2 | 42 | 4 | US-09-636-399A-24 |
| 22 | 199 | 54.2 | 42 | 4 | US-09-636-399A-48 |
| 23 | 198 | 54.0 | 42 | 4 | US-09-636-399A-22 |
| 24 | 195 | 53.1 | 41 | 4 | US-09-636-399A-27 |
| 25 | 195 | 53.1 | 41 | 4 | US-09-636-399A-50 |
| 26 | 194 | 52.9 | 41 | 4 | US-09-636-399A-25 |
| 27 | 194 | 52.9 | 41 | 4 | US-09-636-399A-29 |

ALIGNMENTS

Sequence 51, Appl
Sequence 28, Appl
Sequence 30, Appl
Sequence 32, Appl
Sequence 52, Appl
Sequence 53, Appl
Sequence 54, Appl
Sequence 59, Appl
Sequence 57, Appl
Sequence 18, Appl
Sequence 56, Appl
Sequence 34, Appl
Sequence 60, Appl
Sequence 58, Appl

Interim and final administrative
and administrative record
(considered)

RESULT 1
US-09-636-399A-10
; Sequence 10, Application US/09636399A
; Patent No. 6576255
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-399A-10

Query Match 100.0%; Score 367; DB 4; Length 67;
Best Local Similarity 100.0%; Pred. No. 2.4e-38;
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRIHYLLFALLFLFLVLPVPGHGGIINTLQKYYCVRGGRCAVLSCLPKEEQIGKSTRGR 60
Db 1 MRIHYLLFALLFLFLVLPVPGHGGIINTLQKYYCVRGGRCAVLSCLPKEEQIGKSTRGR 60

QY 61 KCCRRKK 67
Db 61 KCCRRKK 67

RESULT 2
US-09-636-399A-2
; Sequence 2, Application US/09636399A
; Patent No. 6576255
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.

| | Matches | 45 | Conservative | 0 | Mismatches | 4 | Indels | 0 | Gaps | 0 |
|---------------------------------------|---------------------------------------|---|--------------|---|------------|---|--------|---|------|---|
| QY | 19 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGRKCCRKK | 67 | | | | | | | |
| Db | 1 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGRKCCRKK | 49 | | | | | | | |
| RESULT 4 | US-09-636-399A-36 | | | | | | | | | |
| ; | Sequence 36, Application US/09636399A | | | | | | | | | |
| PATENT NO. | 6576755 | | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | | |
| APPLICANT: | Adler, David A. | | | | | | | | | |
| APPLICANT: | Holloway, James L. | | | | | | | | | |
| APPLICANT: | Beigel-Orme, Stephanie | | | | | | | | | |
| APPLICANT: | Sheppard, Paul O. | | | | | | | | | |
| TITLE OF INVENTION: | NOVEL BETA-DEFENSINS | | | | | | | | | |
| FILE REFERENCE: | 97-44C2 | | | | | | | | | |
| CURRENT APPLICATION NUMBER: | US/09/636,399A | | | | | | | | | |
| PRIOR FILING DATE: | 1997-10-09 | | | | | | | | | |
| PRIOR APPLICATION NUMBER: | 60/058,335 | | | | | | | | | |
| Query Match | 97.3% | Score 357; DB 4; Length 65; | | | | | | | | |
| Best Local Similarity | 100.0% | Pred. No. 4e-37; 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| Matches | 65; | Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| QY | 1 | MRHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 60 | | | | | | | |
| Db | 1 | MRHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 60 | | | | | | | |
| QY | 61 | KCRR 65 | | | | | | | | |
| Db | 61 | KCRR 65 | | | | | | | | |
| RESULT 3 | US-09-636-399A-35 | | | | | | | | | |
| SEQUENCE 35, Application US/09636399A | | | | | | | | | | |
| PATENT NO. | 6576755 | | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | | |
| APPLICANT: | Adler, David A. | | | | | | | | | |
| APPLICANT: | Holloway, James L. | | | | | | | | | |
| APPLICANT: | Beigel-Orme, Stephanie | | | | | | | | | |
| APPLICANT: | Sheppard, Paul O. | | | | | | | | | |
| TITLE OF INVENTION: | NOVEL BETA-DEFENSINS | | | | | | | | | |
| FILE REFERENCE: | 97-44C2 | | | | | | | | | |
| CURRENT APPLICATION NUMBER: | US/09/636,399A | | | | | | | | | |
| PRIOR FILING DATE: | 2000-08-10 | | | | | | | | | |
| PRIOR APPLICATION NUMBER: | 60/058,335 | | | | | | | | | |
| Query Match | 97.3% | Score 357; DB 4; Length 65; | | | | | | | | |
| Best Local Similarity | 100.0% | Pred. No. 4e-37; 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| Matches | 65; | Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| QY | 1 | MRHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 60 | | | | | | | |
| Db | 1 | MRHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 60 | | | | | | | |
| RESULT 4 | US-09-636-399A-36 | | | | | | | | | |
| SEQUENCE 36, Application US/09636399A | | | | | | | | | | |
| PATENT NO. | 6576755 | | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | | |
| APPLICANT: | Adler, David A. | | | | | | | | | |
| APPLICANT: | Holloway, James L. | | | | | | | | | |
| APPLICANT: | Beigel-Orme, Stephanie | | | | | | | | | |
| APPLICANT: | Sheppard, Paul O. | | | | | | | | | |
| TITLE OF INVENTION: | NOVEL BETA-DEFENSINS | | | | | | | | | |
| FILE REFERENCE: | 97-44C2 | | | | | | | | | |
| CURRENT APPLICATION NUMBER: | US/09/636,399A | | | | | | | | | |
| PRIOR FILING DATE: | 2000-08-10 | | | | | | | | | |
| PRIOR APPLICATION NUMBER: | 60/058,335 | | | | | | | | | |
| Query Match | 97.3% | Score 357; DB 4; Length 65; | | | | | | | | |
| Best Local Similarity | 100.0% | Pred. No. 4e-37; 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| Matches | 65; | Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | |
| QY | 19 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 66 | | | | | | | |
| Db | 1 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 66 | | | | | | | |
| RESULT 5 | US-09-636-399A-37 | | | | | | | | | |
| SEQUENCE 37, Application US/09636399A | | | | | | | | | | |
| PATENT NO. | 6576755 | | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | | |
| APPLICANT: | Adler, David A. | | | | | | | | | |
| APPLICANT: | Holloway, James L. | | | | | | | | | |
| APPLICANT: | Baindur, Nand | | | | | | | | | |
| APPLICANT: | Beigel-Orme, Stephanie | | | | | | | | | |
| APPLICANT: | Sheppard, Paul O. | | | | | | | | | |
| TITLE OF INVENTION: | NOVEL BETA-DEFENSINS | | | | | | | | | |
| FILE REFERENCE: | 97-44C2 | | | | | | | | | |
| CURRENT APPLICATION NUMBER: | US/09/636,399A | | | | | | | | | |
| PRIOR FILING DATE: | 2000-08-10 | | | | | | | | | |
| PRIOR APPLICATION NUMBER: | 60/058,335 | | | | | | | | | |
| Query Match | 97.3% | Score 357; DB 4; Length 65; | | | | | | | | |
| Best Local Similarity | 91.7% | Pred. No. 2.7e-22; 0; Mismatches 4; Indels 0; Gaps 0; | | | | | | | | |
| Matches | 44; | Conservative 0; Mismatches 4; Indels 0; Gaps 0; | | | | | | | | |
| QY | 19 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 66 | | | | | | | |
| Db | 1 | PGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSRGR | 66 | | | | | | | |

NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 37
 LENGTH: 48
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (44)..(44)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 US-09-636-399A-37

Query Match 63.8%; Score 234; DB 4; Length 48;
 Best Local Similarity 91.7%; Pred. No. 4.9e-22;
 Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

QY 20 GHGGIINTLQYYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 GHGGIINTLQYYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 48

RESULT 6
 US-09-636-399A-38
 Sequence 38, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 38
 ; LENGTH: 47
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (43)..(43)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
 US-09-636-399A-38

Query Match 62.4%; Score 229; DB 4; Length 47;
 Best Local Similarity 91.5%; Pred. No. 2e-21;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (44)..(44)
 OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
 US-09-636-399A-38

Query Match 62.1%; Score 228; DB 4; Length 47;
 Best Local Similarity 91.5%; Pred. No. 2.6e-21;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met

QY 21 HGGIINTLQYYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 HGGIINTLQYYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 47

RESULT 8
 US-09-636-399A-40
 Sequence 40, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 40
 ; LENGTH: 46
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (43)..(43)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 US-09-636-399A-40

Query Match 60.8%; Score 223; DB 4; Length 46;

Best Local Similarity 91.3%; Pred. No. 1.1e-20; DB 4; Length 45; Mismatches 42; Conservative 0; Gaps 0; Indels 0; Gaps 0;

Qy 21 HGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 66
Db 1 HGGIINTLQLYCVRGGRCAVLSCLPKEECIGKMSTRGRKCXRRK 46

RESULT 9

US-09-636-399A-41

; Sequence 41, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 41
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (42)..(42)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
; US-09-636-399A-41

Query Match 59.9%; Score 220; DB 4; Length 46;
Best Local Similarity 91.3%; Pred. No. 2.5e-20; Gaps 0; Indels 4; Mismatches 4; Gaps 0; Indels 0; Gaps 0;

Qy 22 GGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 67
Db 1 GGIINTLQLYCVRGGRCAVLSCLPKEECIGKMSTRGRKCXRRK 46

RESULT 10

US-09-636-399A-42

; Sequence 42, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)..(41)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
; US-09-636-399A-43

Query Match 58.3%; Score 214; DB 4; Length 45;
Best Local Similarity 91.1%; Pred. No. 1.4e-19; Gaps 0; Indels 4; Mismatches 4; Gaps 0; Indels 0; Gaps 0;

Qy 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 67
Db 1 GIINTLQLYCVRGGRCAVLSCLPKEECIGKMSTRGRKCXRRK 45

RESULT 12

US-09-636-399A-44

; Sequence 44, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.

APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/09/636,399A
 CURRENT FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 44
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (41)..(41)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 US-09-636-399A-44

Query Match 56.9%; Score 209; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 5.5e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO: 44
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (40)..(40)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
 US-09-636-399A-45

RESULT 14
 US-09-636-399A-45
 QY 24 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 DB 1 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRYRKCCRKK 44

Query Match 56.7%; Score 208; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 7.3e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO: 20
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin Polypeptide
 US-09-636-399A-20

Query Match 56.7%; Score 208; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 7.3e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

RESULT 13
 US-09-636-399A-20
 Sequence 20, Application US/09636399A
 Patent No. 6576755
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/09/636,399A
 CURRENT FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 45
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (40)..(40)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
 US-09-636-399A-45

RESULT 15
 US-09-636-399A-23
 QY 24 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 DB 1 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRYRKCCRKK 44

Query Match 56.7%; Score 208; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 7.3e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO: 23
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin Polypeptide
 US-09-636-399A-23

RESULT 16
 US-09-636-399A-24
 QY 24 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 DB 1 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRYRKCCRKK 44

Query Match 56.7%; Score 208; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 7.3e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; US-09-636-399A-23

Query Match 55.6%; Score 204; DB 4; Length 43;
Best Local Similarity 90.7%; Pred. No. 2.2e-18;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 25 INTLQKYCRRVRRGGRCAVLSCLPKEEQIGKCSRGRKCCRRK 67
Db 1 INTLQKYCRRVRRGGRCAVLSCLPKEEQIGKCSRGRKCCRRK 43

Search completed: May 17, 2004, 18:00:26
Job time : 18.3922 secs

RESULT 2

US-09-917-340-72

; Sequence 72, Application US/09917340

; Patient No. US20020090369A1

; GENERAL INFORMATION:

; APPLICANT: Murphy, Christopher J.

; APPLICANT: Reid, Ted W.

; TITLE OF INVENTION: Transplant Media

; FILE REFERENCE: TPLANT-06468

; CURRENT APPLICATION NUMBER: US/09/917,340

; CURRENT FILING DATE: 2001-07-29

; PRIOR APPLICATION NUMBER: 60/221,632

; PRIOR FILING DATE: 2000-07-28

; PRIOR APPLICATION NUMBER: 60/249,602

; PRIOR FILING DATE: 2000-11-17

; PRIOR APPLICATION NUMBER: 60/290,932

; PRIOR FILING DATE: 2001-05-15

; NUMBER OF SEQ ID NOS: 96

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO: 72

; LENGTH: 67

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-917-340-72

Query Match 100.0%; Score 367; DB 9; Length 67;

Best Local Similarity 100.0%; Pred. No. 2.7e-37;

Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Db 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Qy 61 KCCRRKK 67

Db 61 KCCRRKK 67

RESULT 3

US-09-872-852-2

; Sequence 2, Application US/09872852

; Patent No. US20020115602A1

; GENERAL INFORMATION:

; APPLICANT: MCCRAY JR, PAUL B.

; APPLICANT: TACK, BRIAN

; APPLICANT: JIA, HONG PENG

; APPLICANT: SCHUTTE, BRIAN C.

; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC FILE REFERENCE: IOWA:031US

; CURRENT APPLICATION NUMBER: US/09/872,852

; CURRENT FILING DATE: 2001-06-01

; PRIOR APPLICATION NUMBER: 60/208,792

; PRIOR FILING DATE: 2000-06-01

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO: 2

; LENGTH: 67

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-10-091-166B-10

Query Match 100.0%; Score 367; DB 14; Length 67;

Best Local Similarity 100.0%; Pred. No. 2.7e-37;

Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Db 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Qy 61 KCCRRKK 67

Db 61 KCCRRKK 67

RESULT 4

US-10-091-166B-10

; Sequence 10, Application US/10091166B

; Publication No. US20030143671A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS FILE REFERENCE: 97-44D1

; CURRENT APPLICATION NUMBER: US/10/091,166B

; CURRENT FILING DATE: 2002-03-05

; PRIOR APPLICATION NUMBER: US 09/636,399

; PRIOR FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: US 09/344,097

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: US 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: US 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: US 60/058,335

; PRIOR FILING DATE: 1997-09-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 10

; LENGTH: 67

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-10-091-166B-10

Query Match 100.0%; Score 367; DB 14; Length 67;

Best Local Similarity 100.0%; Pred. No. 2.7e-37;

Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Db 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

Qy 61 KCCRRKK 67

Db 61 KCCRRKK 67

RESULT 5

US-10-272-121-10

; Sequence 10, Application US/10272121

; Publication No. US20030157638A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baird, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS FILE REFERENCE: 97-44D2

; CURRENT APPLICATION NUMBER: US/10/272,121

; CURRENT FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 09/636,399

; PRIOR FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: US 09/344,097

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: US 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: US 60/064,294

Qy 1 MRLHYLLFALLFLFLVLPVPGHGGIINTLQKYCRVRRGRCAVLSCLPKEQIGKCASTRGR 60

```

; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409, 532
; PRIOR APPLICATION NUMBER: US/09/636, 399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058, 335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064, 294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150, 785
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636, 399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-409-365-10

RESULT 6
US-10-409-365-10
; Sequence 10, Application US/10409366
; Publication No. US20030166912A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409, 366
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636, 399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058, 335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064, 294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150, 786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636, 399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-409-365-10

RESULT 7
US-10-409-532-10
; Sequence 10, Application US/10409532
; Publication No. US20030166913A1

; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409, 532
; PRIOR APPLICATION NUMBER: US/09/636, 399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058, 335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064, 294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150, 785
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636, 399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-091-165B-2

RESULT 8
US-10-091-165B-2
; Sequence 2, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D1
; CURRENT APPLICATION NUMBER: US/10/091, 166B
; CURRENT FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/636, 399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344, 097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150, 786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064, 294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058, 335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-091-165B-2

RESULT 9
US-10-091-165B-2
; Sequence 10, Application US/10091166B
; Publication No. US20030143671A1

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Query Match 97.3%; Score 357; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 4.3e-36;
 Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60
 Db 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60

QY 61 KCCRR 65
 Db 61 KCCRR 65

RESULT 9
 US-10-272-121-2
 ; Sequence 2, Application US/10272121
 ; Publication No. US20030157638A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Bairdur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D2
 ; CURRENT APPLICATION NUMBER: US/10/272,121
 ; CURRENT FILING DATE: 2002-10-15
 ; PRIOR APPLICATION NUMBER: US 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: US 09/344,097
 ; PRIOR FILING DATE: 1999-06-25
 ; PRIOR APPLICATION NUMBER: US 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: US 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: US 60/058,335
 ; PRIOR FILING DATE: 1997-09-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 65
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-272-121-2

Query Match 97.3%; Score 357; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 4.3e-36;
 Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60
 Db 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60

QY 61 KCCRR 65
 Db 61 KCCRR 65

RESULT 11
 US-10-409-532-2
 ; Sequence 2, Application US/10409532
 ; Publication No. US20030166913A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Bairdur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/10/409,532
 ; CURRENT FILING DATE: 2003-04-07
 ; PRIOR APPLICATION NUMBER: US/09/636,399A
 ; PRIOR FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 65
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-409-532-2

Query Match 97.3%; Score 357; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 4.3e-36;
 Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60
 Db 1 MARIHYLLFALLFLFLFLVPPVPGHGGIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGR 60

QY 61 KCCRR 65
 Db 61 KCCRR 65

RESULT 12
 US-09-872-852-4
 ; Sequence 4, Application US/09872852
 ; Patent No. US20020115602A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MCCRAY JR, PAUL B.
 ; APPLICANT: TACK, HONG PENG
 ; APPLICANT: SCHUTTE, BRIAN C.
 ; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
 ; FILE REFERENCE: IOWA:0310S
 ; CURRENT APPLICATION NUMBER: US/09/872,852
 ; CURRENT FILING DATE: 2001-06-01
 ; PRIORITY NUMBER: 60/208,792
 ; PRIORITY FILING DATE: 2000-06-01
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 4
 ; LENGTH: 45
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ; OTHER INFORMATION: Peptide
 ; US-09-872-852-4

Query Match 68.1%; Score 250; DB 9; Length 45;
 Best Local Similarity 100.0%; Pred. No. 3.6e-23; Mismatches 0; Indels 0; Gaps 0;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45

RESULT 13
 US-10-091-166B-35
 ; Sequence 35, Application US/10091166B
 ; Publication No. US20030143671A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D2
 ; CURRENT APPLICATION NUMBER: US/10/272,121
 ; CURRENT FILING DATE: 2002-10-15
 ; PRIORITY NUMBER: US 09/636,399
 ; PRIORITY FILING DATE: 2000-08-10
 ; PRIORITY NUMBER: US 09/344,097
 ; PRIORITY FILING DATE: 1999-06-25
 ; PRIORITY NUMBER: US 09/150,786
 ; PRIORITY FILING DATE: 1998-09-10
 ; PRIORITY NUMBER: US 60/064,294
 ; PRIORITY FILING DATE: 1997-11-05
 ; PRIORITY NUMBER: US 60/058,335
 ; PRIORITY FILING DATE: 1997-09-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 35
 ; LENGTH: 49
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (45)...(45)
 ; OTHER INFORMATION: Leucine, isoleucine, valine, phenylalanine, or
 ; OTHER INFORMATION: methionine
 ; US-10-272-121-35

Query Match 65.7%; Score 241; DB 14; Length 49;
 Best Local Similarity 91.8%; Pred. No. 5e-22; Mismatches 4; Indels 0; Gaps 0;
 Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 19 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 49

RESULT 14
 US-10-272-121-35
 ; Sequence 35, Application US/10272121
 ; Publication No. US20030157638A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D2
 ; CURRENT APPLICATION NUMBER: US/10/272,121
 ; CURRENT FILING DATE: 2002-10-15
 ; PRIORITY NUMBER: US 09/636,399
 ; PRIORITY FILING DATE: 2000-08-10
 ; PRIORITY NUMBER: US 09/344,097
 ; PRIORITY FILING DATE: 1999-06-25
 ; PRIORITY NUMBER: US 09/150,786
 ; PRIORITY FILING DATE: 1998-09-10
 ; PRIORITY NUMBER: US 60/064,294
 ; PRIORITY FILING DATE: 1997-11-05
 ; PRIORITY NUMBER: US 60/058,335
 ; PRIORITY FILING DATE: 1997-09-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 35
 ; LENGTH: 49
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (45)...(45)
 ; OTHER INFORMATION: Leucine, isoleucine, valine, phenylalanine, or
 ; OTHER INFORMATION: methionine
 ; US-10-272-121-35

Query Match 65.7%; Score 241; DB 14; Length 49;
 Best Local Similarity 91.8%; Pred. No. 5e-22; Mismatches 4; Indels 0; Gaps 0;
 Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 19 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 49

RESULT 15
 US-10-409-366-35
 ; Sequence 35, Application US/10409366
 ; Publication No. US20030166912A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2

RESULT 16
 US-10-091-166B-35
 ; Sequence 35, Application US/10091166B
 ; Publication No. US20030143671A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2

; OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
 ; OTHER INFORMATION: methionine
 ; US-10-091-166B-35

Query Match 65.7%; Score 241; DB 14; Length 49;
 Best Local Similarity 91.8%; Pred. No. 5e-22; Mismatches 4; Indels 0; Gaps 0;
 Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 19 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67
 Db 1 PGHGGINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 49

CURRENT APPLICATION NUMBER: US/10/409,366
CURRENT FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: US/09/636,399A
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/058,335
PRIOR FILING DATE: 1997-10-09
PRIOR APPLICATION NUMBER: 60/064,294
PRIOR FILING DATE: 1997-11-05
PRIOR APPLICATION NUMBER: 09/150,786
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/636,399
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO: 35
LENGTH: 49
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Defensin polypeptide
FEATURE:
NAME/KEY: VARIANT
LOCATION: (45)..(45)
OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
US-10-409-366-35

Query Match 65.7%; Score 241; DB 14; Length 49;
Best Local Similarity 91.8%; Pred. No. 5e-22;
Matches 45; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Cry 19 PGHGGIINTLQKYYCRVRRGRCAVLSCLPKEQIGKCSTRGRKCCRKK 67
Db 1 PGHGGIINTLQIYCRVRRGRCAVLSCLPKECIGRMSTRGRKCCRKK 49

Search completed: May 17, 2004, 18:11:57
Job time : 47.2941 secs

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 12.3529 Seconds

(without alignments)
188.066 Million cell updates/sec

Title: US-09-872-852-4

Perfect score: 250

Sequence: GIINTLQKYYCRVRRGRCAV.KEEQIGKCSTRGRKCCRRKK 45

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters:

389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Match | Query Length | DB ID | Description |
|------------|-------|---------|--------------|-------|-------------------|
| 1 | 250 | 100.0 | 67 | 4 | US-09-636-399A-10 |
| 2 | 240 | 96.0 | 65 | 4 | US-09-636-399A-2 |
| 3 | 214 | 85.6 | 45 | 4 | US-09-636-399A-43 |
| 4 | 214 | 85.6 | 46 | 4 | US-09-636-399A-41 |
| 5 | 214 | 85.6 | 47 | 4 | US-09-636-399A-39 |
| 6 | 214 | 85.6 | 48 | 4 | US-09-636-399A-37 |
| 7 | 214 | 85.6 | 49 | 4 | US-09-636-399A-35 |
| 8 | 209 | 83.6 | 44 | 4 | US-09-636-399A-44 |
| 9 | 209 | 83.6 | 45 | 4 | US-09-636-399A-42 |
| 10 | 209 | 83.6 | 46 | 4 | US-09-636-399A-40 |
| 11 | 209 | 83.6 | 47 | 4 | US-09-636-399A-38 |
| 12 | 209 | 83.6 | 48 | 4 | US-09-636-399A-36 |
| 13 | 208 | 83.2 | 44 | 4 | US-09-636-399A-20 |
| 14 | 208 | 83.2 | 44 | 4 | US-09-636-399A-45 |
| 15 | 204 | 81.6 | 43 | 4 | US-09-636-399A-23 |
| 16 | 204 | 81.6 | 43 | 4 | US-09-636-399A-47 |
| 17 | 203 | 81.2 | 43 | 4 | US-09-636-399A-21 |
| 18 | 203 | 81.2 | 43 | 4 | US-09-636-399A-46 |
| 19 | 200 | 80.0 | 42 | 4 | US-09-636-399A-26 |
| 20 | 200 | 80.0 | 42 | 4 | US-09-636-399A-49 |
| 21 | 199 | 79.6 | 42 | 4 | US-09-636-399A-24 |
| 22 | 199 | 79.6 | 42 | 4 | US-09-636-399A-48 |
| 23 | 198 | 79.2 | 42 | 4 | US-09-636-399A-22 |
| 24 | 195 | 78.0 | 41 | 4 | US-09-636-399A-27 |
| 25 | 195 | 78.0 | 41 | 4 | US-09-636-399A-50 |
| 26 | 194 | 77.6 | 41 | 4 | US-09-636-399A-25 |
| 27 | 194 | 77.6 | 41 | 4 | US-09-636-399A-29 |

RESULT 1
US-09-636-399A-10

; Sequence 10, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/09/636,399A

; CURRENT FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

ALIGNMENTS

Query Match Similarity 100.0%; Score 250; DB 4; Length 67;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYYCRVRRGRCAVLSCLPKERQIGKCSTRGRKCCRRKK 45
Db 23 GIINTLQKYYCRVRRGRCAVLSCLPKERQIGKCSTRGRKCCRRKK 67

RESULT 2
US-09-636-399A-2

; Sequence 2, Application US/09636399A
; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Shepard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-636-399A-2

Query Match 96.0%; Score 240; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.7e-23; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 43
Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 65

RESULT 3
US-09-636-399A-43
; Sequence 43, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-636-399A-43

Query Match 96.0%; Score 240; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.7e-23; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 43
Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 65

RESULT 4
US-09-636-399A-44
; Sequence 44, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-636-399A-44

Query Match 96.0%; Score 240; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 4.7e-23; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 43
Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 65

RESULT 5
US-09-636-399A-39
; Sequence 39, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)..(41)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
; US-09-636-399A-43

Query Match 85.6%; Score 214; DB 4; Length 46;
Best Local Similarity 91.1%; Pred. No. 5.8e-20; Mismatches 4; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 45
Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 45

RESULT 6
US-09-636-399A-41
; Sequence 41, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Defensin polypeptide
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (42)..(42)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
; US-09-636-399A-41

Query Match 85.6%; Score 214; DB 4; Length 46;
Best Local Similarity 91.1%; Pred. No. 5.7e-20; Mismatches 4; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 45
Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRK 45

RESULT 7
US-09-636-399A-40
; Sequence 40, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Defensin polypeptide
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide

RESULT 4

NAME/KEY: VARIANT
; LOCATION: (43)..(43)
; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
; US-09-636-399A-39

Query Match Best Local Similarity 85.6%; Score 214; DB 4; Length 47;
; Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
; Db

1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45
; ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
; 3 GIINTLQYYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 47

RESULT 6
; US-09-636-399A-37
; Sequence 37, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 2000-08-10
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (45)..(45)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
; US-09-636-399A-37

Query Match Best Local Similarity 85.6%; Score 214; DB 4; Length 49;
; Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
; Db

1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45
; ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
; 5 GIINTLQYYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 49

RESULT 8
; US-09-636-399A-44
; Sequence 44, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; NAME/KEY: VARIANT
; LOCATION: (41)..(41)
; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
; US-09-636-399A-44

Query Match Best Local Similarity 83.6%; Score 209; DB 4; Length 44;
; Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
; Db

1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 44
; ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
; 1 GIINTLQYYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 44

RESULT 7
; US-09-636-399A-35
; Sequence 35, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; PRIOR APPLICATION NUMBER: 60/058,335

RESULT 9
 US-09-636-399A-42
 ; Sequence 42, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 42
 ; LENGTH: 45
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (42)..(42)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 ; US-09-636-399A-42

Query Match 83.6%; Score 209; DB 4; Length 46;
 Best Local Similarity 90.9%; Pred. No. 2.4e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0;
 Gaps 0;

RESULT 11
 US-09-636-399A-38
 ; Sequence 38, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 38
 ; LENGTH: 47
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (44)..(44)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.
 ; US-09-636-399A-38

Query Match 83.6%; Score 209; DB 4; Length 47;
 Best Local Similarity 90.9%; Pred. No. 2.5e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0;
 Gaps 0;

RESULT 12
 US-09-636-399A-36
 ; Sequence 36, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 40
 ; LENGTH: 46
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:

PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 36
 LENGTH: 48
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (45)..(45)
 OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
 US-09-636-399A-36

Query Match 83.6%; Score 209; DB 4; Length 48;
 Best Local Similarity 90.9%; Pred. No. 2.5e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 44
 Db 5 GIINTLQKYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 48

RESULT 13
 US-09-636-399A-20
 ; Sequence 20, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 45
 ; LENGTH: 44
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (40)..(40)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, Met.
 US-09-636-399A-45

Query Match 83.2%; Score 208; DB 4; Length 44;
 Best Local Similarity 90.9%; Pred. No. 3.1e-19;
 Matches 40; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 2 IINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45
 Db 1 IINTLQKYCVRGGRCAVLSCLPKEECIGKMSTRGRKCCRKK 44

RESULT 15
 US-09-636-399A-23
 ; Sequence 23, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 23
 ; LENGTH: 43
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 US-09-636-399A-23

RESULT 14
 US-09-636-399A-45

Query Match 81.6%; Score 204; DB 4; Length 43;
Best Local Similarity 90.7%; Pred. No. 9.6e-19;
Matches 39; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 3 INTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 45
Db 1 INTLQKYCVRVYRCAVLSCLPKEQIKCSTRYRKCCRRKK 43

Search completed: May 17, 2004, 18:00:27
Job time : 12.3529 secs

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 31.7647 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-4
Perfect score: 250
Sequence: 1 GIINTLQKYICRVRGGRCAV. KEEQIGKCSTRGRKCCRRKK 45

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEWPUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEWPUBCOMB.pep:*

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18: /cgn2_6/ptodata/2/pubpaa/US60_NEWPUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1
US-09-872-852-4
; Sequence 4, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872, 852
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 60/208, 792
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 4
LENGTH: 45
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-872-852-4

Query Match 100.0%; Score 250; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.2e-23;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GIINTLQKYICRVRGGRCAVIISCLPKEEQIGKCSTRGRKCCRRKK 45
Db 1 GIINTLQKYICRVRGGRCAVIISCLPKEEQIGKCSTRGRKCCRRKK 45

RESULT 2
US-09-917-340-52

Sequence 52, Application US/09917340
 PATENT NO. US20020090369A1
 GENERAL INFORMATION:
 APPLICANT: Murphy, Christopher J.
 APPLICANT: McAnulty, Jonathan F.
 APPLICANT: Reid, Ted W.
 TITLE OF INVENTION: Transplant Media
 FILE REFERENCE: TPLANT-06468
 CURRENT APPLICATION NUMBER: US/09/917,340
 CURRENT FILING DATE: 2001-07-29
 PRIOR APPLICATION NUMBER: 60/221,632
 PRIOR FILING DATE: 2000-07-28
 PRIOR APPLICATION NUMBER: 60/249,602
 PRIOR FILING DATE: 2000-11-17
 PRIOR APPLICATION NUMBER: 60/290,932
 PRIOR FILING DATE: 2001-05-15
 NUMBER OF SEQ ID NOS: 96
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 52
 LENGTH: 67
 TYPE: PRT
 ORGANISM: Homo sapiens
 ;US-09-917-340-52

Query Match 100.0%; Score 250; DB 9; Length 67;
 Best Local Similarity 100.0%; Pred. No. 1.8e-23;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 45
 Db 23 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 67

RESULT 3
 US-09-917-340-72
 ; Sequence 72, Application US/09917340
 ; Patent No. US20020090369A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Murphy, Christopher J.
 ; APPLICANT: McAnulty, Jonathan F.
 ; APPLICANT: Reid, Ted W.
 ; TITLE OF INVENTION: Transplant Media
 ; FILE REFERENCE: TPLANT-06468
 ; CURRENT APPLICATION NUMBER: US/09/917,340
 ; CURRENT FILING DATE: 2001-07-29
 ; PRIOR APPLICATION NUMBER: 60/221,632
 ; PRIOR FILING DATE: 2000-07-28
 ; PRIOR APPLICATION NUMBER: 60/249,602
 ; PRIOR FILING DATE: 2000-11-17
 ; PRIOR APPLICATION NUMBER: 60/290,932
 ; PRIOR FILING DATE: 2001-05-15
 ; NUMBER OF SEQ ID NOS: 96
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 72
 ; LENGTH: 67
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ;US-09-917-340-72

Query Match 100.0%; Score 250; DB 9; Length 67;
 Best Local Similarity 100.0%; Pred. No. 1.8e-23;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 45
 Db 23 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 67

RESULT 4
 US-09-872-852-2
 ; Sequence 2, Application US/09872852
 ; Patent No. US2002015602A1
 ; GENERAL INFORMATION:

RESULT 5
 US-10-091-166B-10
 ; Sequence 10, Application US/10091166B
 ; Publication No. US20030143671A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D1
 ; CURRENT APPLICATION NUMBER: US/10/091,166B
 ; CURRENT FILING DATE: 2002-03-05
 ; PRIOR APPLICATION NUMBER: US 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: US 09/344,097
 ; PRIOR FILING DATE: 1999-06-25
 ; PRIOR APPLICATION NUMBER: US 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: US 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: US 60/058,335
 ; PRIOR FILING DATE: 1997-09-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 10
 ; LENGTH: 67
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ;US-10-091-166B-10

Query Match 100.0%; Score 250; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 1.8e-23;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 45
 Db 23 GIINTLQKYCVRGGRCAVLSCLPKEQIGKCSTRGRKCCRRKK 67

RESULT 6

US-10-272-121-10
 ; Sequence 10, Application US/10272121
 ; Publication No. US20030157638A1

; GENERAL INFORMATION:

APPLICANT: Adler, David A.

APPLICANT: Holloway, James L.

APPLICANT: Bairdur, Nand

APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44D2

CURRENT APPLICATION NUMBER: US/10/272,121

CURRENT FILING DATE: 2002-10-15

PRIOR APPLICATION NUMBER: US 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: US 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: US 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: US 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: US 60/058,335

PRIOR FILING DATE: 1997-09-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 10

LENGTH: 67

TYPE: PRT

ORGANISM: Homo sapiens

US-10-272-121-10

Query Match 100.0%; Score 250; DB 14; Length 67;

Best Local Similarity 100.0%; Pred. No. 1.8e-23; Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45

23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

RESULT 7

US-10-409-366-10
 ; Sequence 10, Application US/10409366

; Publication No. US20030166912A1

; GENERAL INFORMATION:

APPLICANT: Adler, David A.

APPLICANT: Holloway, James L.

APPLICANT: Bairdur, Nand

APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/10/409,366

PRIOR APPLICATION NUMBER: US/09/344,097

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: US/09/636,399

PRIOR FILING DATE: 1999-10-09

PRIOR APPLICATION NUMBER: US/09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: US/09/636,399

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 10

LENGTH: 67

TYPE: PRT

ORGANISM: Homo sapiens

Query Match 100.0%; Score 250; DB 14; Length 67;

Best Local Similarity 100.0%; Pred. No. 1.8e-23; Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45

23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

RESULT 9

US-10-091-166B-2
 ; Sequence 2, Application US/10091166B

; Publication No. US20030143671A1

; GENERAL INFORMATION:

APPLICANT: Adler, David A.

APPLICANT: Holloway, James L.

APPLICANT: Bairdur, Nand

APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44D1

CURRENT APPLICATION NUMBER: US/10/091,166B

PRIOR APPLICATION NUMBER: US 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: US 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: US 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: US 60/064,294

PRIOR FILING DATE: 1997-11-05

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 10

LENGTH: 67

TYPE: PRT

ORGANISM: Homo sapiens

Query Match 100.0%; Score 250; DB 14; Length 67;

Best Local Similarity 100.0%; Pred. No. 1.8e-23; Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 45

Db 23 GIINTLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

RESULT 8

US-10-409-532-10

; Sequence 10, Application US/10409532

; Publication No. US20030166913A1

; GENERAL INFORMATION:

APPLICANT: Adler, David A.

APPLICANT: Holloway, James L.

APPLICANT: Bairdur, Nand

APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/10/409,532

CURRENT FILING DATE: 2003-04-07

PRIOR APPLICATION NUMBER: US/09/636,399A

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 09/344,097

PRIOR FILING DATE: 1999-06-25

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 1998-09-10

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; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-091-166B-2

Query Match 96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 43
Db 23 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65
US-10-409-366-2

RESULT 10
US-10-272-121-2
; Sequence 2, Application US/10272121
; Publication No. US20030157638A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44D2
; CURRENT APPLICATION NUMBER: US/10/272,121
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 09/636,399
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/344,097
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: US 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/058,335
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-272-121-2

Query Match 96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 43
Db 23 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65
US-10-409-366-2

RESULT 12
US-10-409-532-2
; Sequence 2, Application US/10409532
; Publication No. US20030166913A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Baindur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/10/409,532
; CURRENT FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US/09/636,399A
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-409-532-2

Query Match 96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 43
Db 23 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65
US-10-409-532-2

RESULT 13
US-09-872-852-3
; Sequence 3, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: McCray Jr., Paul B.

Query Match 96.0%; Score 240; DB 14; Length 65;
Best Local Similarity 100.0%; Pred. No. 3e-22; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 43
Db 23 GIINTLQKYICRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65

```

APPLICANT: TACK, BRIAN
 APPLICANT: JIA, HONG PENG
 APPLICANT: SCHUTTE, BRIAN C.
 TITLE OF INVENTION: HUMAN BETA-DEFENSIN ANTIMICROBIAL PEPTIDE
 FILE REFERENCE: IOWA:031US
 CURRENT APPLICATION NUMBER: US/09/872,852
 PRIOR FILING DATE: 2000-06-01
 NUMBER OF SEQ ID NOS: 24
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 3
 LENGTH: 41
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: Peptide
 US-09-872-852-3

Query Match 92.0%; Score 230; DB 9; Length 41;
 Best Local Similarity 100.0%; Pred. No. 3.2e-21; Mismatches 0; Indels 0; Gaps 0;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSRGRKCCRKK 45
 Db 1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSRGRKCCRKK 41

RESULT 14

US-10-091-166B-43
 Sequence 43, Application US/10091166B
 Publication No. US20030143671A1
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baird, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 CURRENT APPLICATION NUMBER: US/10/091,166B
 FILE REFERENCE: 97-44D1
 CURRENT FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: US 09/636,399
 CURRENT FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: US 09/636,399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344,097
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: US 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: US 60/058,335
 PRIOR FILING DATE: 1997-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 43
 LENGTH: 45
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (41)..(41)
 OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
 OTHER INFORMATION: methionine
 US-10-272-121-43

RESULT 15

US-10-272-121-43
 Sequence 43, Application US/10272121
 Publication No. US20030157638A1
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baird, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44D2
 CURRENT APPLICATION NUMBER: US/10/272,121
 CURRENT FILING DATE: 2002-10-15
 PRIOR APPLICATION NUMBER: US 09/636,399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344,097
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: US 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: US 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: US 60/058,335
 PRIOR FILING DATE: 1997-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 43
 LENGTH: 45
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (41)..(41)
 OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
 OTHER INFORMATION: methionine
 US-10-272-121-43

Query Match 85.6%; Score 214; DB 14; Length 45;
 Best Local Similarity 91.1%; Pred. No. 3.3e-19; Mismatches 4; Indels 0; Gaps 0;
 Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 GIINTLQKYYCRVRRGRCAVLSCLPKEEQIGKCSRGRKCCRKK 45
 Db 1 GIINTLQIYVYCRVRRGRCAVLSCLPKEECIGKMSTRGRKCCRKK 45

Search completed: May 17, 2004, 18:11:58
 Job time : 31.7647 secs

Query Match 85.6%; Score 214; DB 14; Length 45;
 Best Local Similarity 91.1%; Pred. No. 3.3e-19; Mismatches 4; Indels 0; Gaps 0;
 Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 NAME/KEY: VARIANT
 LOCATION: (41)..(41)
 OTHER INFORMATION: leucine, isoleucine, valine, phenylalanine, or
 OTHER INFORMATION: methionine
 US-10-091-166B-43

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:58:35 ; Search time 28.9412 Seconds
(without alignments)
394.204 Million cell updates/sec

Title: US-09-872-852-3

Perfect score: 230

Sequence: 1 TLQKYCVRGGRCAVLSCL.....KEEQIGKCSTRGRKCCRKK 41

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT NEW_PUB.pep:*

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6: /cgn2_6/ptodata/2/pubpaa/PCUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*

8: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*

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12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

64 94 73 8

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| 2 | 230 | 100.0 | 45 | 9 US-09-872-852-4 |
| 3 | 230 | 100.0 | 67 | 9 US-09-917-340-52 |
| 4 | 230 | 100.0 | 67 | 9 US-09-872-852-2 |
| 5 | 230 | 100.0 | 67 | 9 US-09-872-852-2 |
| 6 | 230 | 100.0 | 67 | 14 US-10-091-166B-10 |
| 7 | 230 | 100.0 | 67 | 14 US-10-272-121-10 |
| 8 | 230 | 100.0 | 67 | 14 US-10-409-366-10 |
| 9 | 230 | 100.0 | 67 | 14 US-10-409-532-10 |
| 10 | 220 | 95.7 | 65 | 14 US-10-091-166B-2 |
| 11 | 220 | 95.7 | 65 | 14 US-10-272-121-2 |
| 12 | 220 | 95.7 | 65 | 14 US-10-409-366-2 |
| 13 | 220 | 95.7 | 65 | 14 US-10-409-532-2 |
| 14 | 201 | 87.4 | 35 | 14 US-10-252-734-7 |
| 15 | 194 | 84.3 | 41 | 14 US-10-091-166B-26 |
| 16 | | 194 | 84.3 | 41 14 US-10-091-166B-51 |
| 17 | | 194 | 84.3 | 41 14 US-10-272-121-29 |
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| 19 | | 194 | 84.3 | 41 14 US-10-409-366-29 |
| 20 | | 194 | 84.3 | 41 14 US-10-409-532-29 |
| 21 | | 194 | 84.3 | 41 14 US-10-409-532-51 |
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| 23 | | 194 | 84.3 | 42 14 US-10-091-166B-26 |
| 24 | | 194 | 84.3 | 42 14 US-10-091-166B-49 |
| 25 | | 194 | 84.3 | 42 14 US-10-272-121-26 |
| 26 | | 194 | 84.3 | 42 14 US-10-409-532-49 |
| 27 | | 194 | 84.3 | 42 14 US-10-091-166B-23 |
| 28 | | 194 | 84.3 | 42 14 US-10-409-366-26 |
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| 33 | | 194 | 84.3 | 43 14 US-10-272-121-23 |
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| 35 | | 194 | 84.3 | 43 14 US-10-409-366-23 |
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| 39 | | 194 | 84.3 | 44 14 US-10-091-166B-20 |
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| 45 | | 194 | 84.3 | 44 14 US-10-409-532-20 |

ALIGNMENTS

RESULT 1

US-09-872-852-3

; Sequence 3, Application US/09872852

; Patent No. US20020115602A1

; GENERAL INFORMATION:

; APPLICANT: MCCRAY JR, PAUL B.

; APPLICANT: TACK, BRIAN

; APPLICANT: JIA, HONG PENG

; APPLICANT: SCHUTTE, BRIAN C.

; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC

; TITLE OF INVENTION: BETA-DEFENSIN ANTIMICROBIAL PEPTIDE

; FILE REFERENCE: IOWA:0311US

; CURRENT APPLICATION NUMBER: US/09/872, 852

; CURRENT FILING DATE: 2001-06-01

; PRIOR APPLICATION NUMBER: 60/208, 792

; PRIOR FILING DATE: 2000-06-01

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3
; LENGTH: 41

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: Sequence 3, Appli

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: Peptide

; US-09-872-852-3

KPL

Query Match 100.0%; Score 230; DB 9; Length 41;
Best local Similarity 100.0%; Pred. No. 4.4e-21;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
Db 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41

; RESULT 2

; US-09-872-852-4

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; Sequence 4, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872, 852
; CURRENT FILING DATE: 2001-06-01
; PRIORITY APPLICATION NUMBER: 60/208, 792
; PRIORITY FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
; US-09-872-852-4

Query Match          100.0%; Score 230; DB 9; Length 45;
Best Local Similarity 100.0%; Pred. No. 4.8e-21; Mismatches 0; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 41
Db          5 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 45

RESULT 3
US-09-917-340-52
; Sequence 52, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: McAnulty, Jonathan F.
; APPLICANT: Murphy, Christopher J.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917, 340
; CURRENT FILING DATE: 2001-07-29
; PRIORITY APPLICATION NUMBER: 60/221, 632
; PRIORITY FILING DATE: 2000-07-28
; PRIORITY APPLICATION NUMBER: 60/249, 602
; PRIORITY FILING DATE: 2000-11-17
; PRIORITY APPLICATION NUMBER: 60/290, 932
; PRIORITY FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-917-340-72

Query Match          100.0%; Score 230; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21; Mismatches 0; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 41
Db          5 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 67

RESULT 5
US-09-872-852-2
; Sequence 2, Application US/09872852
; Patent No. US20020115602A1
; GENERAL INFORMATION:
; APPLICANT: MCCRAY JR, PAUL B.
; APPLICANT: TACK, BRIAN
; APPLICANT: JIA, HONG PENG
; APPLICANT: SCHUTTE, BRIAN C.
; TITLE OF INVENTION: HUMAN BETA-DEFENSIN-3 (HBD-3), A HIGHLY CATIONIC
; FILE REFERENCE: IOWA:031US
; CURRENT APPLICATION NUMBER: US/09/872, 852
; CURRENT FILING DATE: 2001-06-01
; PRIORITY APPLICATION NUMBER: 60/208, 792
; PRIORITY FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
; US-09-872-852-2

Query Match          100.0%; Score 230; DB 9; Length 67;
Best Local Similarity 100.0%; Pred. No. 7.1e-21; Mismatches 0; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY          1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 41
Db          27 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK 67

RESULT 6
US-10-091-166B-10
; Sequence 10, Application US/10091166B
; Publication No. US20030143671A1
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.

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RESULT 4
US-09-917-340-72
; Sequence 72, Application US/09917340
; Patent No. US20020090369A1

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APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44D1
 CURRENT APPLICATION NUMBER: US/10/091,166B
 CURRENT FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: US 09/636, 399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344, 097
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: US 09/150, 786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: US 60/064, 294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: US 60/058, 335
 PRIOR FILING DATE: 1997-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 10
 LENGTH: 67
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-091-166B-10

RESULT 7
 US-10-272-121-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-091-166B-10

RESULT 8
 US-10-409-366-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-091-166B-10

RESULT 7
 US-10-272-121-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-091-166B-10

RESULT 9
 US-10-409-532-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-409-532-10

RESULT 8
 US-10-409-366-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-409-366-10

RESULT 9
 US-10-409-532-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-409-532-10

RESULT 8
 US-10-409-366-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-409-366-10

RESULT 9
 US-10-409-532-10
 Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 Db 27 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 67

US-10-409-532-10

; ORGANISM: Homo sapiens
 ; US-10-409-532-10

Query Match 100.0%; Score 230; DB 14; Length 67;
 Best Local Similarity 100.0%; Pred. No. 7.1e-21; Mismatches 0; Indels 0; Gaps 0;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 41
 Db 27 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 67

RESULT 10
 US-10-091-166B-2

; Sequence 2, Application US/10091166B
 ; Publication No. US20030143671A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D1

; CURRENT APPLICATION NUMBER: US/10/091,166B
 ; CURRENT FILING DATE: 2002-03-05

PRIOR APPLICATION NUMBER: US 09/636, 399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344, 097
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: US 09/150, 786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: US 60/064, 294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: US 60/058, 335
 PRIOR FILING DATE: 1997-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 2
 LENGTH: 65

; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-091-166B-2

Query Match 95.7%; Score 220; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 1.2e-19; Mismatches 0; Indels 0; Gaps 0;
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 39
 Db 27 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65

RESULT 11
 US-10-272-121-2

; Sequence 2, Application US/10272121
 ; Publication No. US20030157638A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44D2

; CURRENT APPLICATION NUMBER: US/10/272,121
 ; CURRENT FILING DATE: 2002-10-15

PRIOR APPLICATION NUMBER: US 09/636, 399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344, 097
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: US 09/150, 786
 PRIOR FILING DATE: 1998-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 2
 LENGTH: 55

; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-409-366-2

Query Match 95.7%; Score 220; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 1.2e-19; Mismatches 0; Indels 0; Gaps 0;
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 39
 Db 27 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65

RESULT 12
 US-10-409-366-2

; Sequence 2, Application US/10409366
 ; Publication No. US20030166912A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/10/409,366
 ; CURRENT FILING DATE: 2003-04-07

PRIOR APPLICATION NUMBER: US/09/636,399A
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058, 335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150, 786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 2
 LENGTH: 55

; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-409-366-2

Query Match 95.7%; Score 220; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 1.2e-19; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 39
 Db 27 TLQKYCRVRRGRCAVLSCLPKEEQIGKCSTRGRKCCRR 65

RESULT 13
 US-10-409-532-2

; Sequence 2, Application US/10409532
 ; Publication No. US20030166913A1

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baird, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/10/409,532
 CURRENT FILING DATE: 2003-04-07
 PRIOR APPLICATION NUMBER: US/09/636,399A
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 2
 LENGTH: 65
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-409-532-2

Query Match 95.7%; Score 220; DB 14; Length 65;
 Best Local Similarity 100.0%; Pred. No. 1.2e-19;
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 39
 Db 27 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 65

RESULT 14
 US-10-252-734-7
 Sequence 7, Application US/10252734
 Publication No. US20030176652A1
 GENERAL INFORMATION:
 APPLICANT: MCCRAY, JR., PAUL B.
 APPLICANT: SCHUTTE, BRIAN C.
 APPLICANT: JIA, HONG PENG
 APPLICANT: CASAVANT, THOMAS L.
 TITLE OF INVENTION: HUMAN AND MOUSE b-DEFENSINS, ANTIMICROBIAL PEPTIDES
 FILE REFERENCE: IOWA:041US
 CURRENT APPLICATION NUMBER: US/10/252,734
 CURRENT FILING DATE: 2002-09-23
 PRIOR APPLICATION NUMBER: 60/323,991
 PRIOR FILING DATE: 2001-09-21
 NUMBER OF SEQ ID NOS: 82
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 7
 LENGTH: 35
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-252-734-7

Query Match 87.4%; Score 201; DB 14; Length 35;
 Best Local Similarity 100.0%; Pred. No. 1.4e-17;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 84.3%; Score 194; DB 14; Length 41;
 Best Local Similarity 90.2%; Pred. No. 1.1e-16;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 41
 Db 1 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 41

RESULT 15
 US-10-091-166B-29
 Sequence 7, Application US/10091166B
 Publication No. US20030143671A1
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS

Query Match 84.3%; Score 194; DB 14; Length 41;
 Best Local Similarity 90.2%; Pred. No. 1.1e-16;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 41
 Db 1 TLQKYCRVRCGCAVLSCLPKEEQIGKCSTRGRKCCR 41

Search completed: May 17, 2004, 18:11:58
 Job time : 29.9412 secs

FILE REFERENCE: 97-44D1
 CURRENT APPLICATION NUMBER: US/10/091,166B
 CURRENT FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: US 09/636,399
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: US 09/344,097
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: US 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: US 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: US 60/058,335
 PRIOR FILING DATE: 1997-09-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 29
 LENGTH: 41
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 US-10-091-166B-29

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OM protein - protein search, using sw model

Run on: May 17, 2004, 17:49:00 ; Search time 11.2549 Seconds
(without alignments)

188.066 Million cell updates/sec

Title: US-09-872-852-3

Perfect score: 230

Sequence: 1 TLQKYCRVRRGRCAVLSC...KEEQIGKCSTRGRKCCRRKK 41

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/2/iaa/PC7US_COMB.pep:*

6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|-------------------|-------------------|
| 1 | 230 | 100.0 | 67 | 4 | US-09-636-399A-10 | Sequence 10, Appl |
| 2 | 220 | 95.7 | 65 | 4 | US-09-636-399A-2 | Sequence 2, Appl |
| 3 | 194 | 84.3 | 41 | 4 | US-09-636-399A-29 | Sequence 29, Appl |
| 4 | 194 | 84.3 | 41 | 4 | US-09-636-399A-51 | Sequence 51, Appl |
| 5 | 194 | 84.3 | 42 | 4 | US-09-636-399A-26 | Sequence 26, Appl |
| 6 | 194 | 84.3 | 42 | 4 | US-09-636-399A-49 | Sequence 49, Appl |
| 7 | 194 | 84.3 | 43 | 4 | US-09-636-399A-23 | Sequence 23, Appl |
| 8 | 194 | 84.3 | 43 | 4 | US-09-636-399A-47 | Sequence 47, Appl |
| 9 | 194 | 84.3 | 44 | 4 | US-09-636-399A-20 | Sequence 20, Appl |
| 10 | 194 | 84.3 | 44 | 4 | US-09-636-399A-45 | Sequence 45, Appl |
| 11 | 194 | 84.3 | 45 | 4 | US-09-636-399A-43 | Sequence 43, Appl |
| 12 | 194 | 84.3 | 46 | 4 | US-09-636-399A-41 | Sequence 41, Appl |
| 13 | 194 | 84.3 | 47 | 4 | US-09-636-399A-39 | Sequence 39, Appl |
| 14 | 194 | 84.3 | 48 | 4 | US-09-636-399A-37 | Sequence 37, Appl |
| 15 | 194 | 84.3 | 49 | 4 | US-09-636-399A-35 | Sequence 35, Appl |
| 16 | 189 | 82.2 | 40 | 4 | US-09-636-399A-30 | Sequence 30, Appl |
| 17 | 189 | 82.2 | 40 | 4 | US-09-636-399A-52 | Sequence 52, Appl |
| 18 | 189 | 82.2 | 40 | 4 | US-09-636-399A-53 | Sequence 53, Appl |
| 19 | 189 | 82.2 | 40 | 4 | US-09-636-399A-27 | Sequence 27, Appl |
| 20 | 189 | 82.2 | 41 | 4 | US-09-636-399A-50 | Sequence 50, Appl |
| 21 | 189 | 82.2 | 41 | 4 | US-09-636-399A-24 | Sequence 24, Appl |
| 22 | 189 | 82.2 | 42 | 4 | US-09-636-399A-48 | Sequence 48, Appl |
| 23 | 189 | 82.2 | 42 | 4 | US-09-636-399A-48 | Sequence 42, Appl |
| 24 | 189 | 82.2 | 43 | 4 | US-09-636-399A-21 | Sequence 21, Appl |
| 25 | 189 | 82.2 | 43 | 4 | US-09-636-399A-46 | Sequence 46, Appl |
| 26 | 189 | 82.2 | 44 | 4 | US-09-636-399A-42 | Sequence 44, Appl |
| 27 | 189 | 82.2 | 44 | 4 | US-09-636-399A-42 | Sequence 42, Appl |

RESULT 1

US-09-636-399A-10

; Sequence 10, Application US/09636399A

; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Hollaway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Shepard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

; FILE REFERENCE: 97-44C2

; CURRENT APPLICATION NUMBER: US/09/636,399A

; CURRENT FILING DATE: 2000-08-10

; PRIOR APPLICATION NUMBER: 60/058,335

; PRIOR FILING DATE: 1997-10-09

; PRIOR APPLICATION NUMBER: 60/064,294

; PRIOR FILING DATE: 1997-11-05

; PRIOR APPLICATION NUMBER: 09/150,786

; PRIOR FILING DATE: 1998-09-10

; PRIOR APPLICATION NUMBER: 09/636,399

; PRIOR FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 72

; SOFTWARE: FastSBQ for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 67

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-636-399A-10

Query Match 100.0%; Score 230; DB 4; Length 67;

Best Local Similarity 100.0%; Pred. No. 1.5e-21;

Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCRVRRGRCAVLSC...KEEQIGKCSTRGRKCCRRKK 41

Db 27 TLQKYCRVRRGRCAVLSC...KEEQIGKCSTRGRKCCRRKK 67

RESULT 2

US-09-636-399A-2

; Sequence 2, Application US/09636399A

; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Hollaway, James L.

; APPLICANT: Baindur, Nand

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Shepard, Paul O.

; TITLE OF INVENTION: NOVEL BETA-DEFENSINS

Sequence 40, Appl

Sequence 38, Appl

Sequence 36, Appl

Sequence 35, Appl

Sequence 34, Appl

Sequence 33, Appl

Sequence 32, Appl

Sequence 31, Appl

Sequence 30, Appl

Sequence 29, Appl

Sequence 28, Appl

Sequence 27, Appl

Sequence 26, Appl

Sequence 25, Appl

Sequence 24, Appl

Sequence 23, Appl

Sequence 22, Appl

Sequence 21, Appl

Sequence 20, Appl

Sequence 19, Appl

Sequence 18, Appl

Sequence 17, Appl

Sequence 16, Appl

Sequence 15, Appl

Sequence 14, Appl

Sequence 13, Appl

Sequence 12, Appl

Sequence 11, Appl

Sequence 10, Appl

Sequence 9, Appl

Sequence 8, Appl

Sequence 7, Appl

Sequence 6, Appl

Sequence 5, Appl

Sequence 4, Appl

Sequence 3, Appl

Sequence 2, Appl

Sequence 1, Appl

FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-636-399A-2

Query Match 95.7%; Score 220; DB 4; Length 65;
Best Local Similarity 100.0%; Pred. No. 2.4e-20; Mismatches 0; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRR 39
Db 27 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRR 65

RESULT 3
US-09-636-399A-29
; Sequence 29, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Defensin polypeptide
; LOCATION: (37)...(37)
; OTHER INFORMATION: Xaa is Ile, Leu, Phe, Val, or Met
; US-09-636-399A-51

Query Match 84.3%; Score 194; DB 4; Length 41;
Best Local Similarity 90.2%; Pred. No. 2.5e-17; Mismatches 4; Indels 0; Gaps 0;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRRK 41
Db 1 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRRK 41

RESULT 5
US-09-636-399A-26
; Sequence 26, Application US/09636399A
; Patent No. 6576755
; GENERAL INFORMATION:
; APPLICANT: Adler, David A.
; APPLICANT: Holloway, James L.
; APPLICANT: Bairdur, Nand
; APPLICANT: Beigel-Orme, Stephanie
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
; FILE REFERENCE: 97-44C2
; CURRENT APPLICATION NUMBER: US/09/636,399A
; CURRENT FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/058,335
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/064,294
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: 09/150,786
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/636,399
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 26
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Defensin polypeptide
; US-09-636-399A-26

Query Match 84.3%; Score 194; DB 4; Length 42;
Best Local Similarity 90.2%; Pred. No. 2.5e-17; Mismatches 4; Indels 0; Gaps 0;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRRK 41
Db 1 TLQKYCVRGGCAVLSCLPKEEQIGKCASTRGKCCRRK 41

RESULT 4
US-09-636-399A-51
; Sequence 51, Application US/09636399A
; Patent No. 6576755

Best Local Similarity 90.2%; Pred. No. 2.5e-17; Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 2 TLQKYCVRVYRCAVLSCLPKEEQIYKCSTRYRKCCRKK 42

Db

RESULT 6

FILE REFERENCE: 97-44C2

US-09-636-399A-49

; Sequence 49, Application US/09636399A

; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

PRIOR APPLICATION NUMBER: US/09/636,399A

CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 49

LENGTH: 42

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

; OTHER INFORMATION: Defensin polypeptide

; NAME/KEY: VARIANT

; LOCATION: (38)..(38)

; OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met

US-09-636-399A-49

Query Match 84.3%; Score 194; DB 4; Length 43;

Best Local Similarity 90.2%; Pred. No. 2.5e-17; Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 2 TLQKYCVRVYRCAVLSCLPKEEQIYKCSTRYRKCCRKK 42

Db

RESULT 7

US-09-636-399A-23

; Sequence 23, Application US/09636399A

; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Beigel-Orme, Stephanie

; APPLICANT: Sheppard, Paul O.

TITLE OF INVENTION: NOVEL BETA-DEFENSINS

FILE REFERENCE: 97-44C2

CURRENT APPLICATION NUMBER: US/09/636,399A

CURRENT FILING DATE: 2000-08-10

PRIOR APPLICATION NUMBER: 60/058,335

PRIOR FILING DATE: 1997-10-09

PRIOR APPLICATION NUMBER: 60/064,294

PRIOR FILING DATE: 1997-11-05

PRIOR APPLICATION NUMBER: 09/150,786

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 09/636,399

PRIOR FILING DATE: 2000-08-10

NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 47

LENGTH: 43

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

; OTHER INFORMATION: Defensin polypeptide

; NAME/KEY: VARIANT

; LOCATION: (39)..(39)

; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met.

US-09-636-399A-47

Query Match 84.3%; Score 194; DB 4; Length 43;

Best Local Similarity 90.2%; Pred. No. 2.6e-17; Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 TLQKYCVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK 41
 2 TLQKYCVRVYRCAVLSCLPKEEQIYKCSTRYRKCCRKK 42

Db

RESULT 9

US-09-636-399A-20

; Sequence 20, Application US/09636399A

; Patent No. 6576755

; GENERAL INFORMATION:

; APPLICANT: Adler, David A.

; APPLICANT: Holloway, James L.

; APPLICANT: Baird, Nand

; APPLICANT: Beigel-Orme, Stephanie

APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/09/636,399A
 CURRENT FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 20
 LENGTH: 44
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin Polypeptide
 US-09-636-399A-20

Query Match Score 194; DB 4; Length 44;
 Best Local Similarity 90.2%; Pred. No. 2.7e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO 20
 LENGTH: 44

RESULT 10
 US-09-636-399A-45
 Sequence 45, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 43
 ; LENGTH: 45
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Defensin polypeptide
 ; NAME/KEY: VARIANT
 ; LOCATION: (41)..(41)
 ; OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
 US-09-636-399A-43

Query Match Score 194; DB 4; Length 45;
 Best Local Similarity 90.2%; Pred. No. 2.7e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO 43
 LENGTH: 45

RESULT 11
 US-09-636-399A-43
 Sequence 43, Application US/09636399A
 ; Patent No. 6576755
 ; GENERAL INFORMATION:
 ; APPLICANT: Adler, David A.
 ; APPLICANT: Holloway, James L.
 ; APPLICANT: Baindur, Nand
 ; APPLICANT: Beigel-Orme, Stephanie
 ; APPLICANT: Sheppard, Paul O.
 ; TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 ; FILE REFERENCE: 97-44C2
 ; CURRENT APPLICATION NUMBER: US/09/636,399A
 ; CURRENT FILING DATE: 2000-08-10
 ; PRIOR APPLICATION NUMBER: 60/058,335
 ; PRIOR FILING DATE: 1997-10-09
 ; PRIOR APPLICATION NUMBER: 60/064,294
 ; PRIOR FILING DATE: 1997-11-05
 ; PRIOR APPLICATION NUMBER: 09/150,786
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 09/636,399
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 72
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 41
 ; LENGTH: 46

Query Match Score 194; DB 4; Length 44;
 Best Local Similarity 90.2%; Pred. No. 2.7e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 SEQ ID NO 41
 LENGTH: 46

TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (42)..(42)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 US-09-636-399A-41

Query Match 84.3%; Score 194; DB 4; Length 46;
 Best Local Similarity 90.2%; Pred. No. 2.8e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Db

QY 1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCASTRGRKCCRKK 41
 6 TLQLYYCRVRRGRCAVLSCLPKEECIGKMSTRGRKCCRKK 46

RESULT 13
 US-09-636-399A-39
 Sequence 39, Application US/09636399A
 Patent No. 6576755
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/09/636,399A
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 39
 LENGTH: 47

TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 LOCATION: (44)..(44)
 OTHER INFORMATION: Xaa is Leu, Ile, Phe, Val, or Met
 US-09-636-399A-37

Query Match 84.3%; Score 194; DB 4; Length 48;
 Best Local Similarity 90.2%; Pred. No. 2.9e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Db

QY 1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCASTRGRKCCRKK 41
 8 TLQLYYCRVRRGRCAVLSCLPKEECIGKMSTRGRKCCRKK 48

RESULT 15
 US-09-636-399A-35
 Sequence 35, Application US/09636399A
 Patent No. 6576755
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS
 FILE REFERENCE: 97-44C2
 CURRENT APPLICATION NUMBER: US/09/636,399A
 PRIOR FILING DATE: 2000-08-10
 PRIOR APPLICATION NUMBER: 60/058,335
 PRIOR FILING DATE: 1997-10-09
 PRIOR APPLICATION NUMBER: 60/064,294
 PRIOR FILING DATE: 1997-11-05
 PRIOR APPLICATION NUMBER: 09/150,786
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/636,399
 PRIOR FILING DATE: 2000-08-10
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 35
 LENGTH: 49

TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Defensin polypeptide
 NAME/KEY: VARIANT
 LOCATION: (45)..(45)
 OTHER INFORMATION: Xaa is Leu, Ile, Val, Phe, or Met
 US-09-636-399A-35

Query Match 84.3%; Score 194; DB 4; Length 49;
 Best Local Similarity 90.2%; Pred. No. 2.9e-17;
 Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Db

QY 1 TLQKYYCRVRRGRCAVLSCLPKEEQIGKCASTRGRKCCRKK 41
 7 TLQLYYCRVRRGRCAVLSCLPKEECIGKMSTRGRKCCRKK 47

RESULT 14
 US-09-636-399A-37
 Sequence 37, Application US/09636399A
 Patent No. 6576755
 GENERAL INFORMATION:
 APPLICANT: Adler, David A.
 APPLICANT: Holloway, James L.
 APPLICANT: Baindur, Nand
 APPLICANT: Beigel-Orme, Stephanie
 APPLICANT: Sheppard, Paul O.
 TITLE OF INVENTION: NOVEL BETA-DEFENSINS

Tue May 18 12:11:22 2004

us-09-872-852-3.rai

Page 6

Db 9 TLQYYCVRGGRCAVLSCLPKEECIGMSTRGRKXRKK 49

Search completed: May 17, 2004, 18:00:27
Job time : 12.2549 secs